

FIG. 1

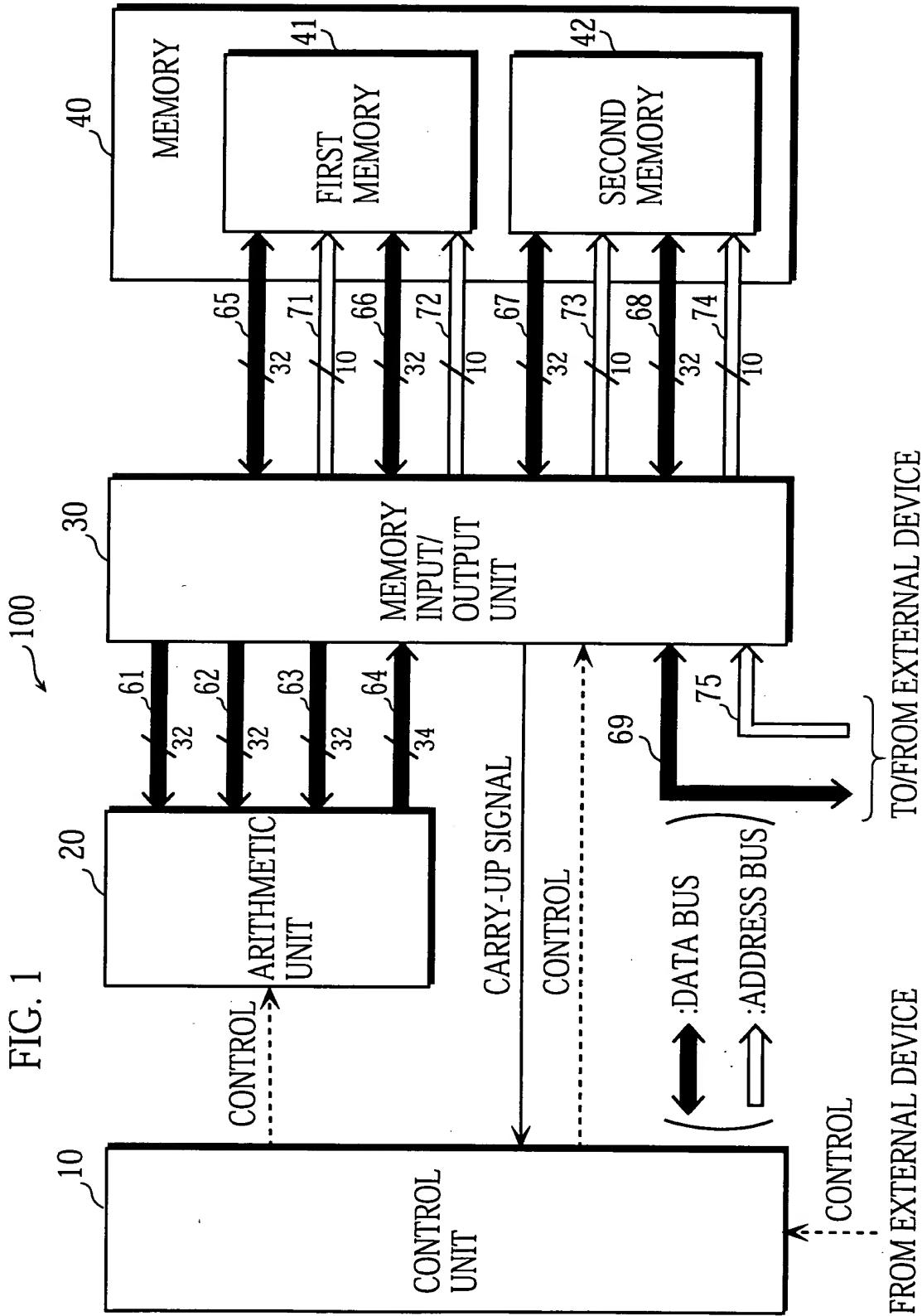


FIG. 2

20

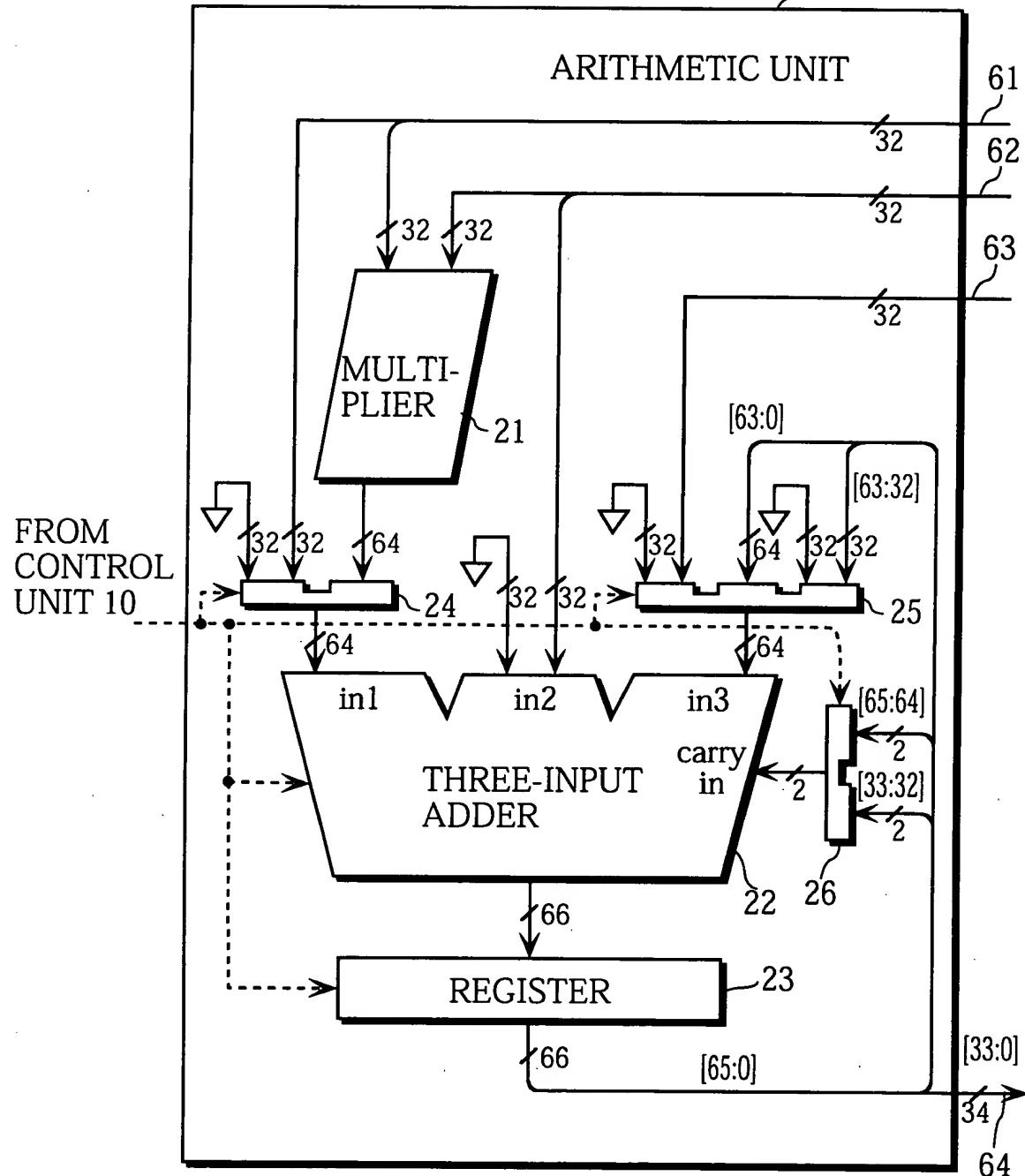


FIG. 3

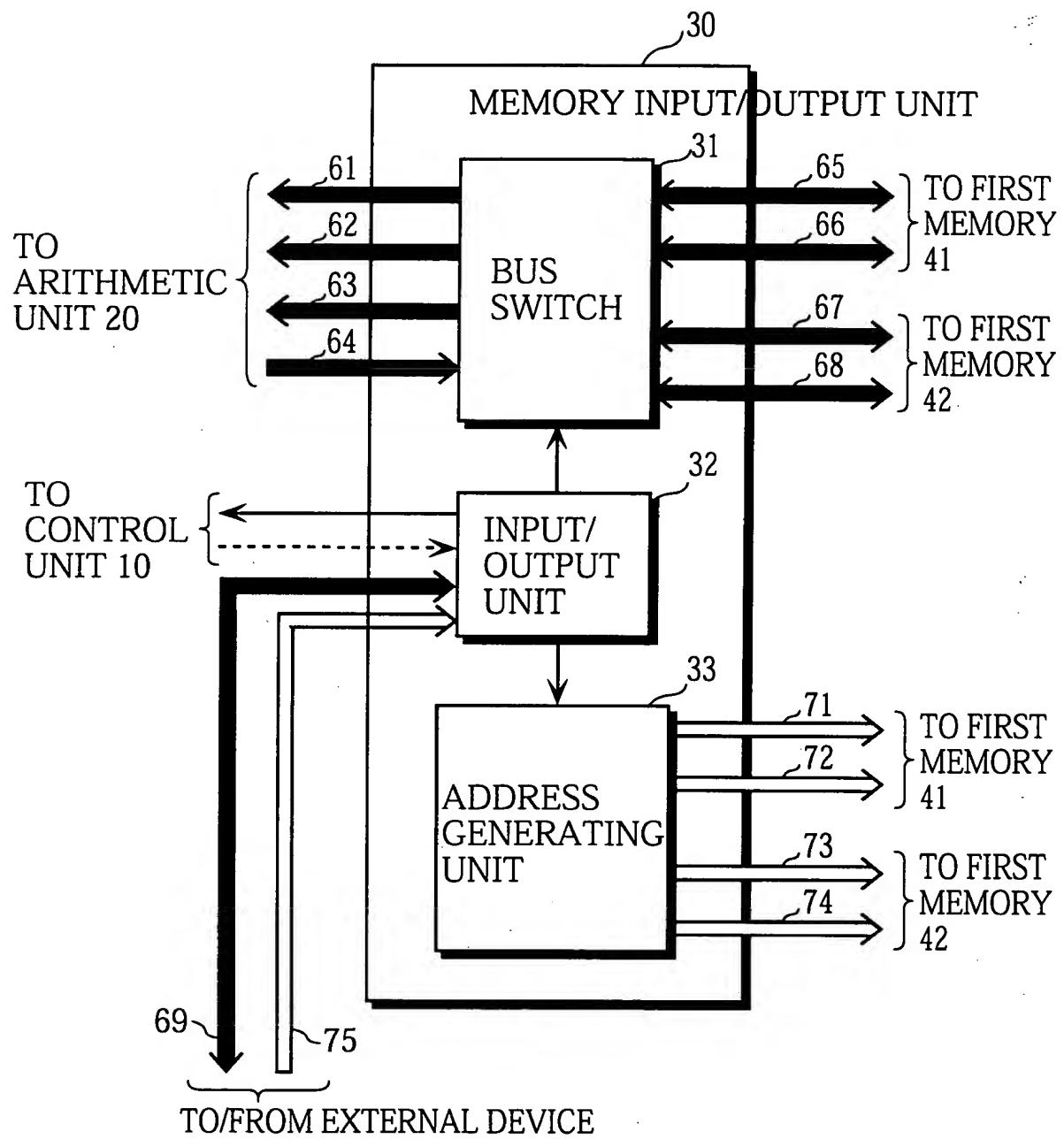


FIG. 4

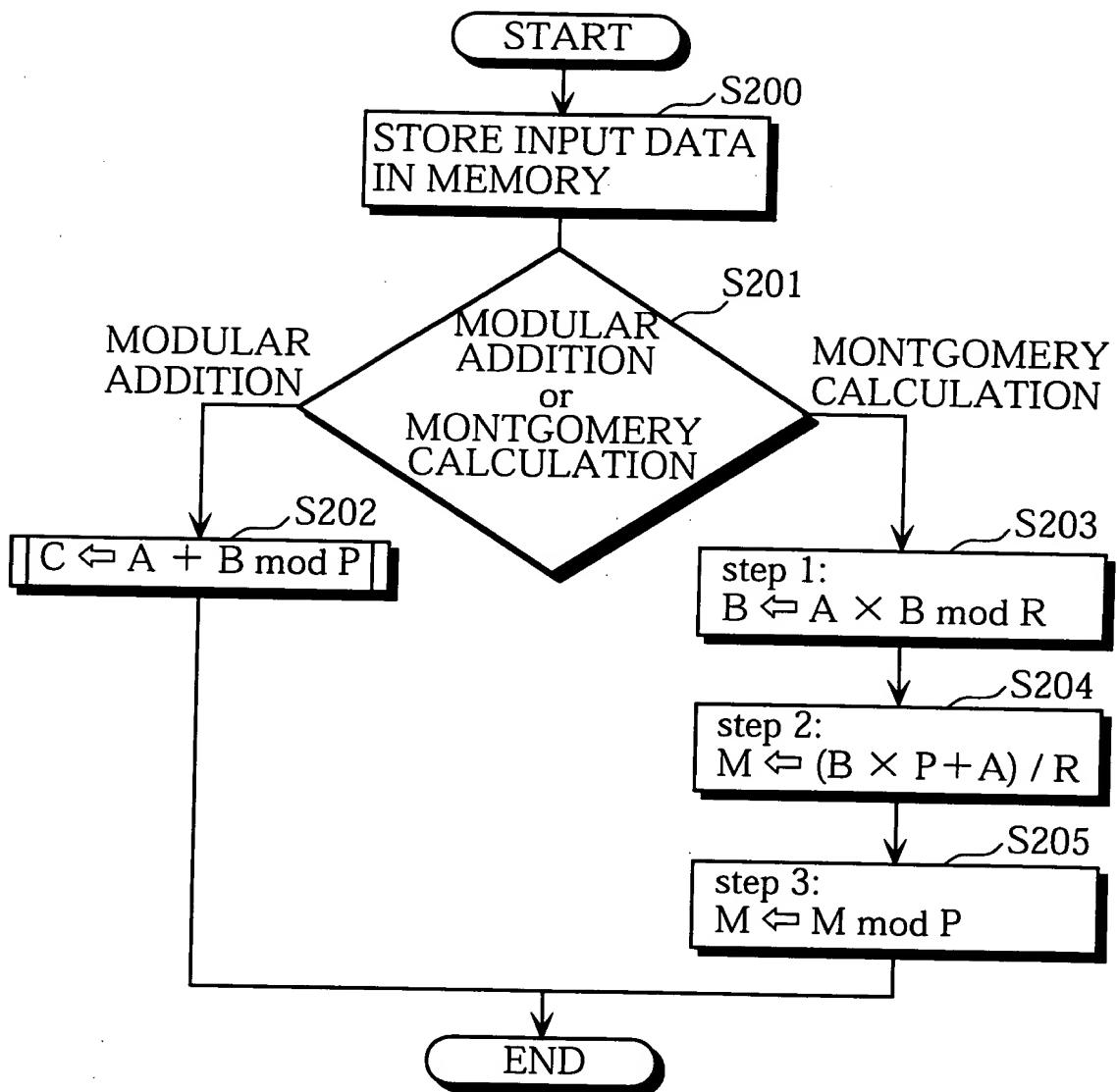


FIG. 5

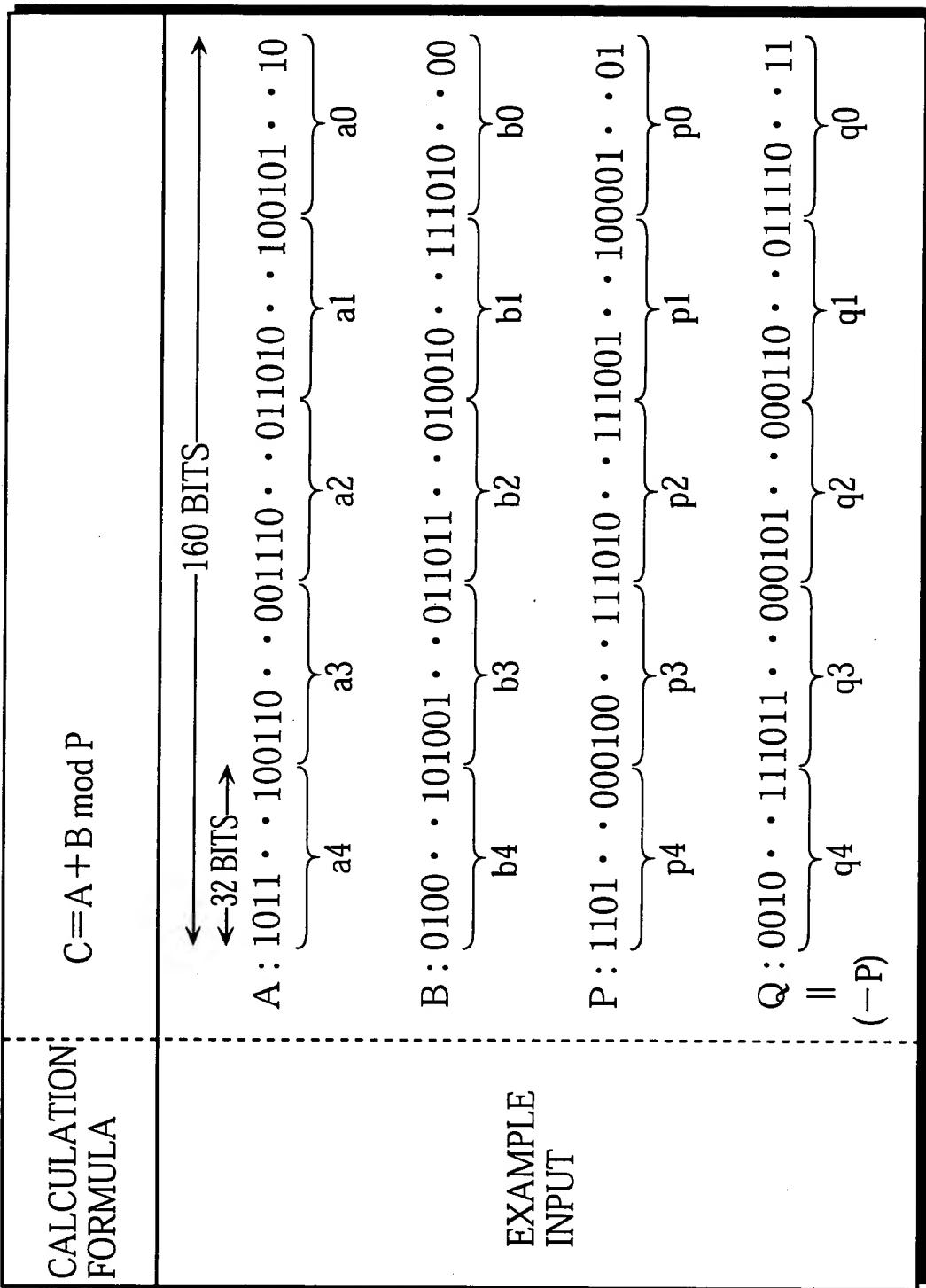


FIG. 6A

41
a0
a1
a2
a3
a4
•
•
p0
p1
p2
p3
p4
•
•
q0
q1
q2
q3
q4

FIG. 6B

42
b0
b1
b2
b3
b4
•
•
c0
c1
c2
c3
c4
•
•
w0
w1
w2
w3
w4

FIG. 7

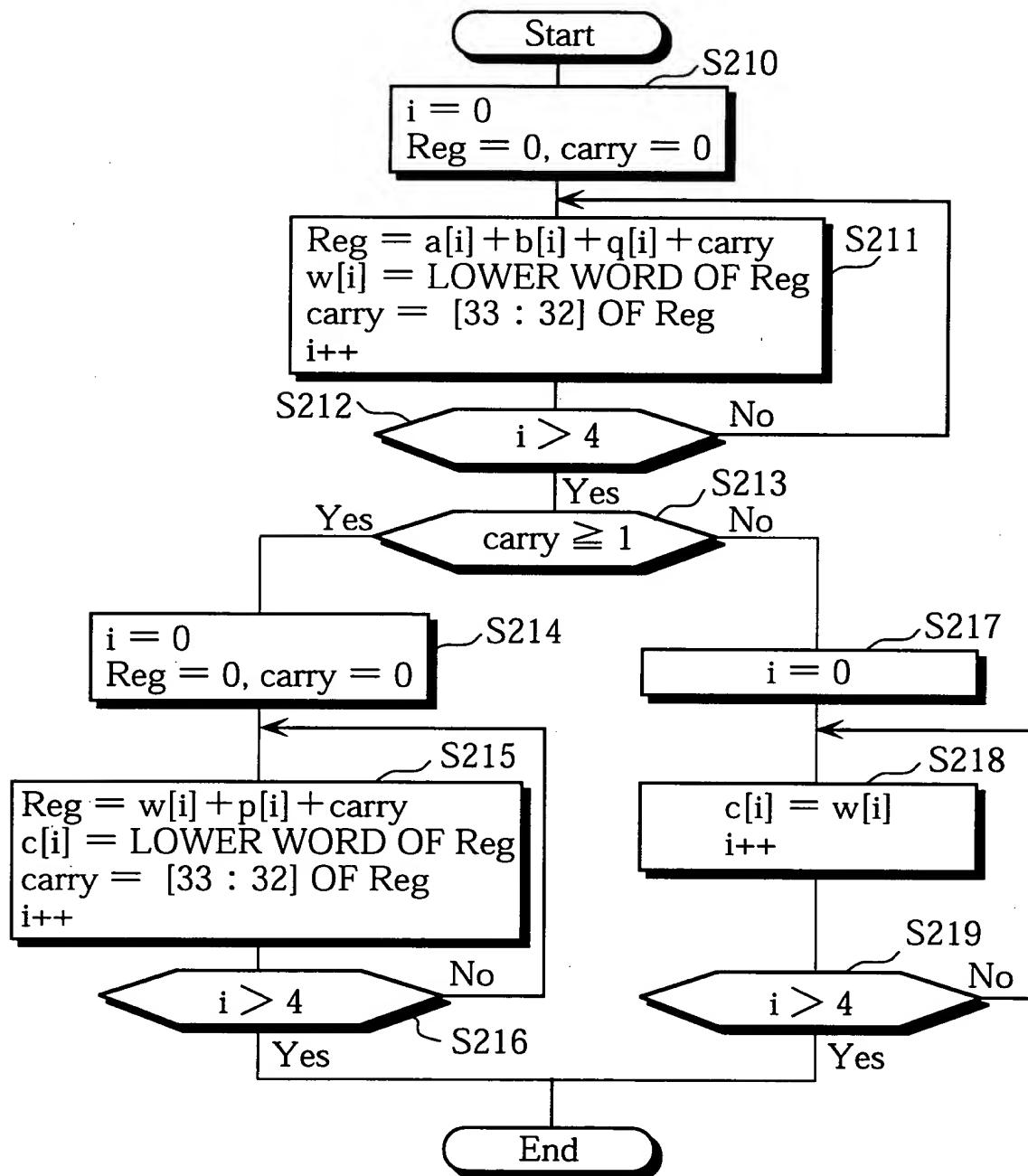


FIG. 8A

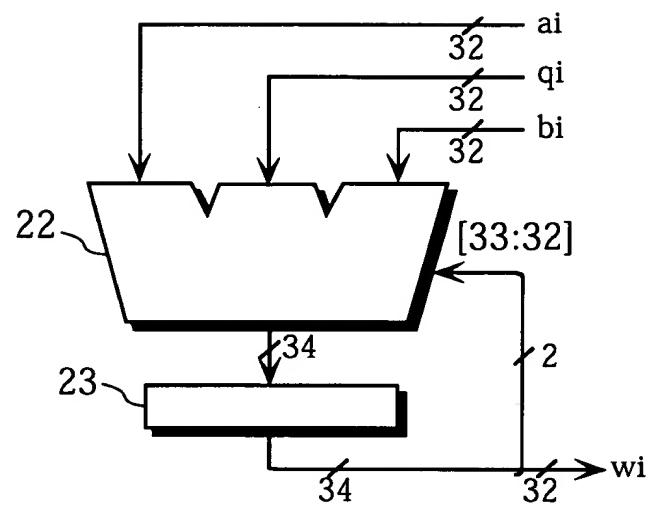


FIG. 8B

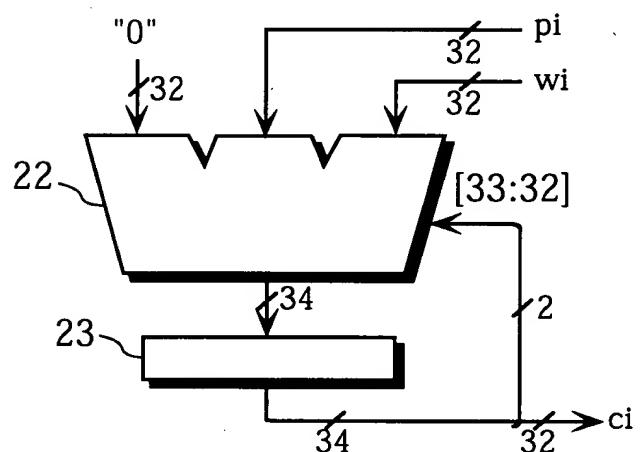
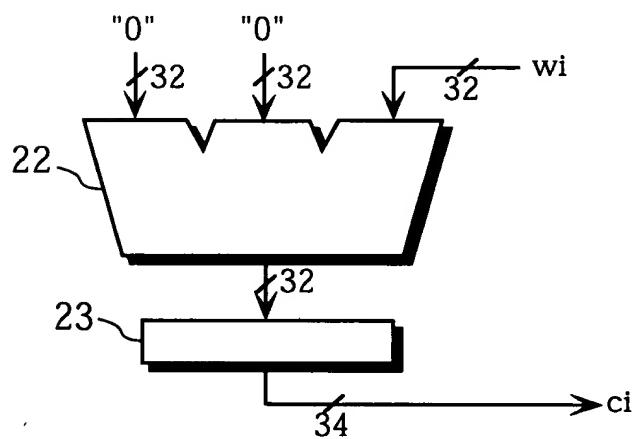


FIG. 8B



CLOCK

$\text{Reg} \leftarrow a_0 + b_0 + q_0 + \text{carry}$	$\text{Reg} \leftarrow a_1 + b_1 + q_1 + \text{carry}$	$\text{Reg} \leftarrow a_2 + b_2 + q_2 + \text{carry}$	$\text{Reg} \leftarrow a_3 + b_3 + q_3 + \text{carry}$
$w_0 \leftarrow \text{Reg}$	$w_1 \leftarrow \text{Reg}$	$w_2 \leftarrow \text{Reg}$	$w_3 \leftarrow \text{Reg}$

FIG. 9A

$\text{Reg} \leftarrow w_0 + p_0 + \text{carry}$	$\text{Reg} \leftarrow w_1 + p_1 + \text{carry}$	$\text{Reg} \leftarrow w_2 + p_2 + \text{carry}$	$\text{Reg} \leftarrow w_3 + p_3 + \text{carry}$
$c_0 \leftarrow \text{Reg}$	$c_1 \leftarrow \text{Reg}$	$c_2 \leftarrow \text{Reg}$	$c_3 \leftarrow \text{Reg}$

FIG. 9B

$\text{Reg} \leftarrow w_0$	$\text{Reg} \leftarrow w_1$	$\text{Reg} \leftarrow w_2$	$\text{Reg} \leftarrow w_3$
$c_0 \leftarrow \text{Reg}$	$c_1 \leftarrow \text{Reg}$	$c_2 \leftarrow \text{Reg}$	$c_3 \leftarrow \text{Reg}$

FIG. 9C

FIG. 10

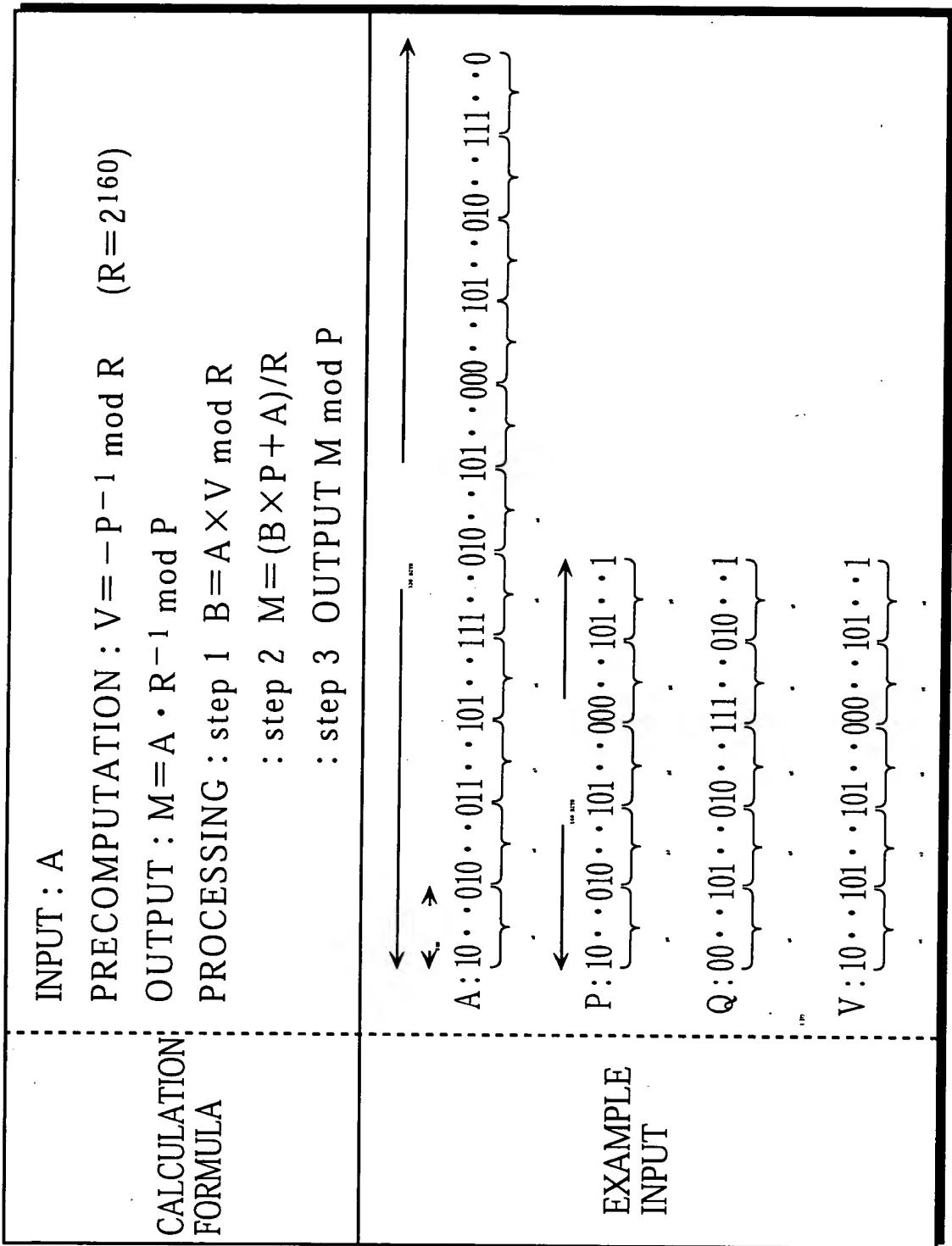


FIG. 11A

a0
a1
a2
a3
a4
a5
a6
a7
a8
a9
•
•
p0
p1
p2
p3
p4
•
•
q0
q1
q2
q3
q4
•
•
m0
m1
m2
m3
m4

41

FIG. 11B

v0
v1
v2
v3
v4
v5
•
•
b0
b1
b2
b3
b4
•
•
c0
c1
c2
c3
c4
c5
•
•
e0(0xffffffff)
•
•
m0
m1
m2
m3
m4

42

FIG. 12A

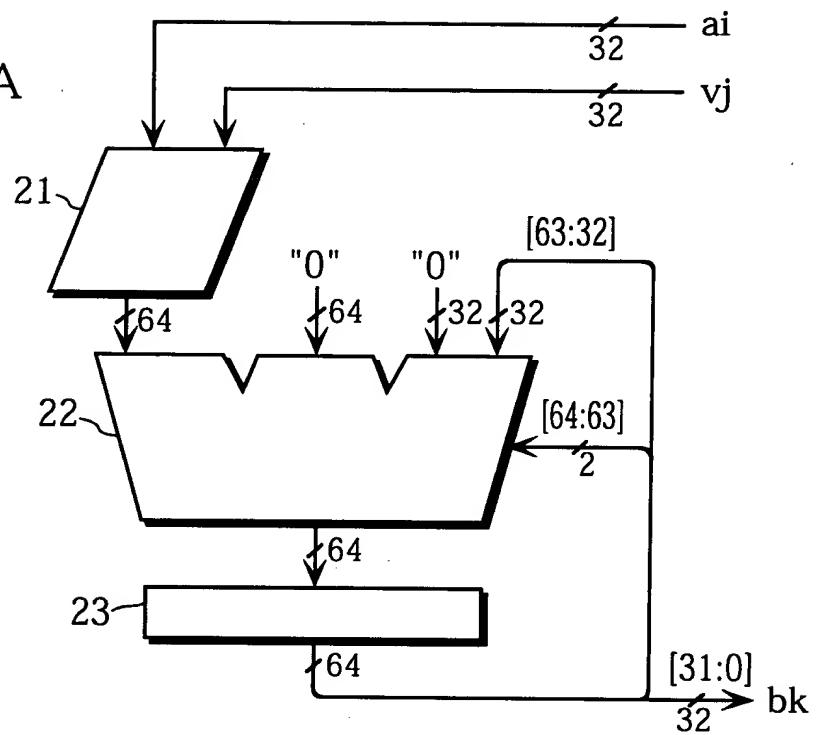


FIG. 12B

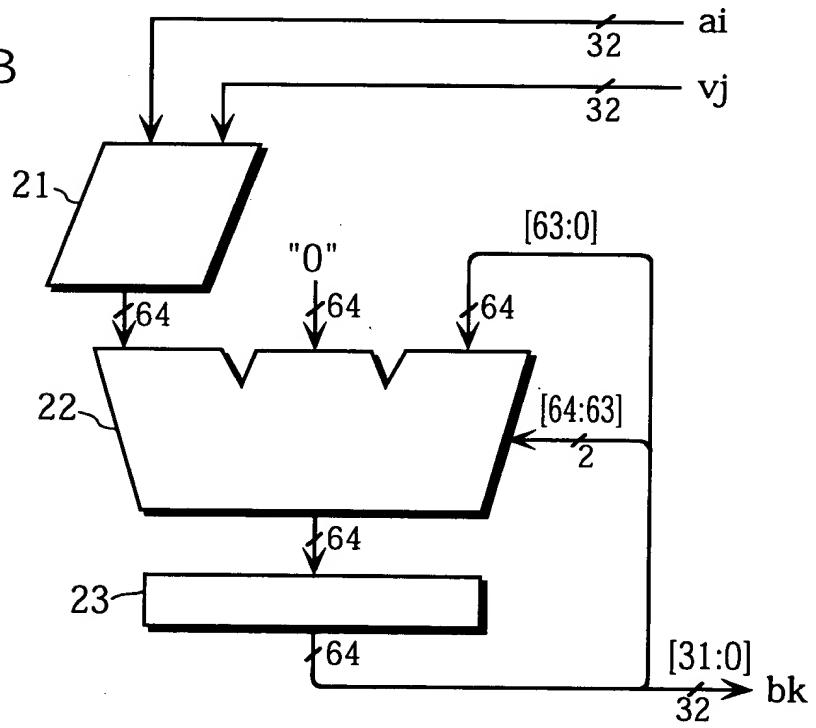


FIG. 13

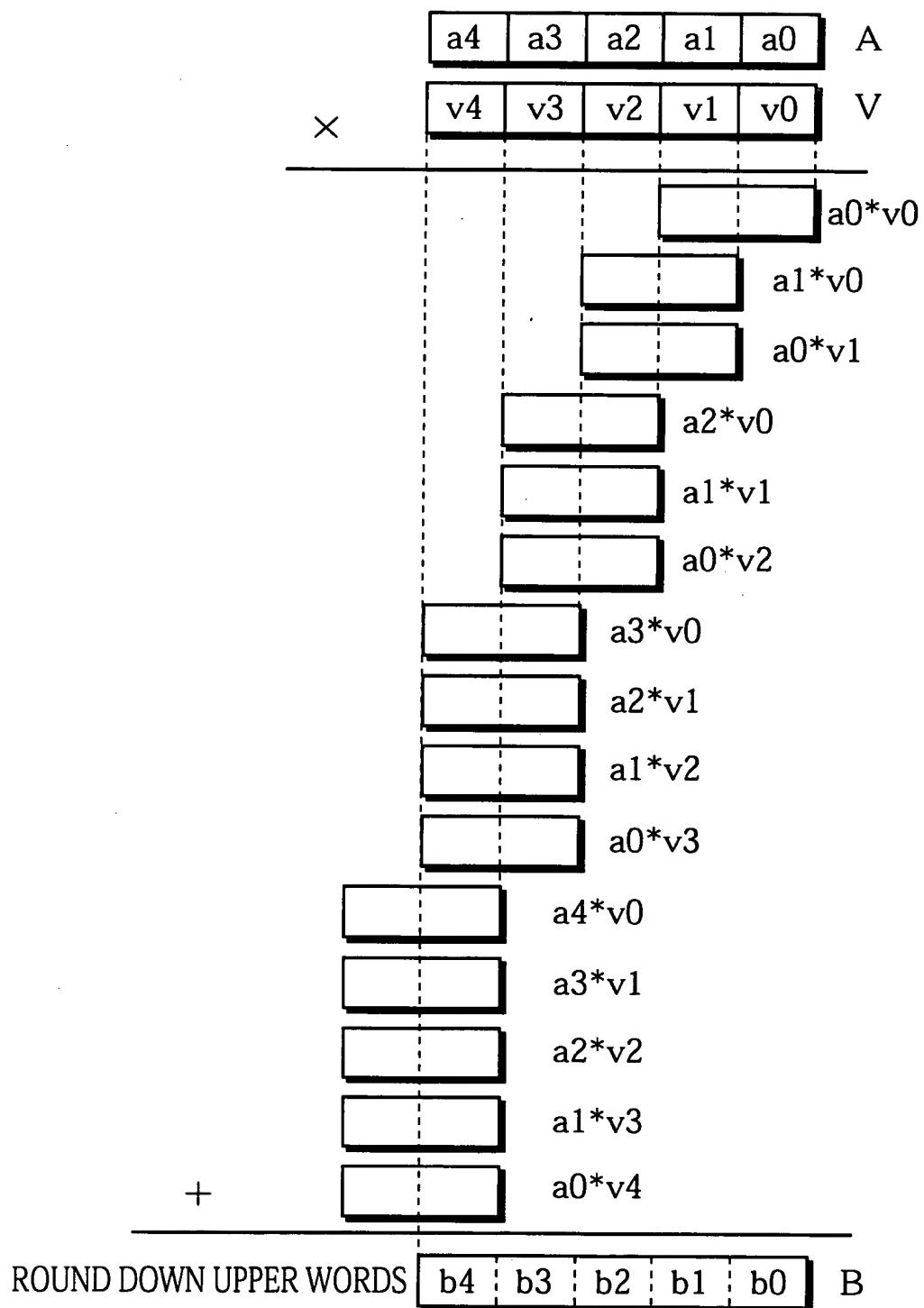


FIG. 14A

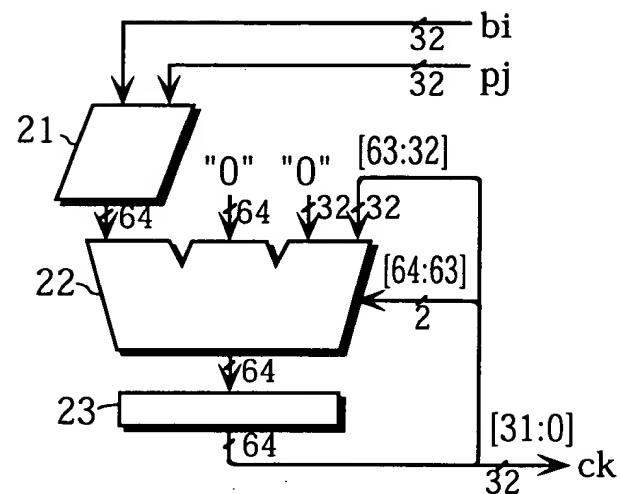


FIG. 14B

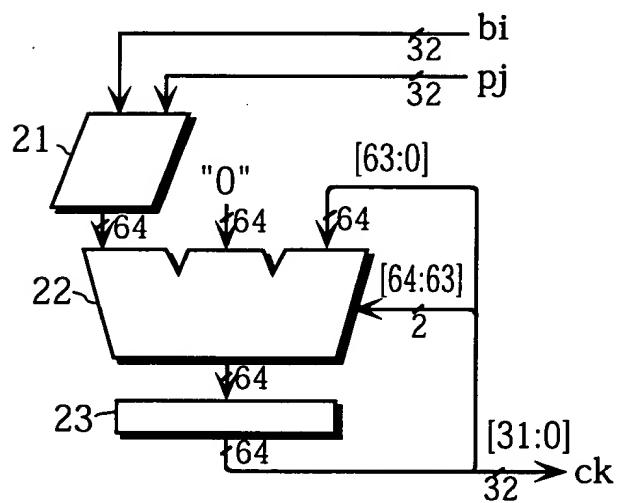


FIG. 14C

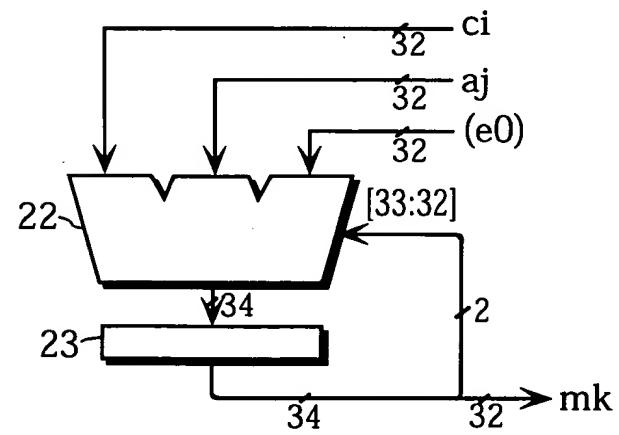


FIG. 15

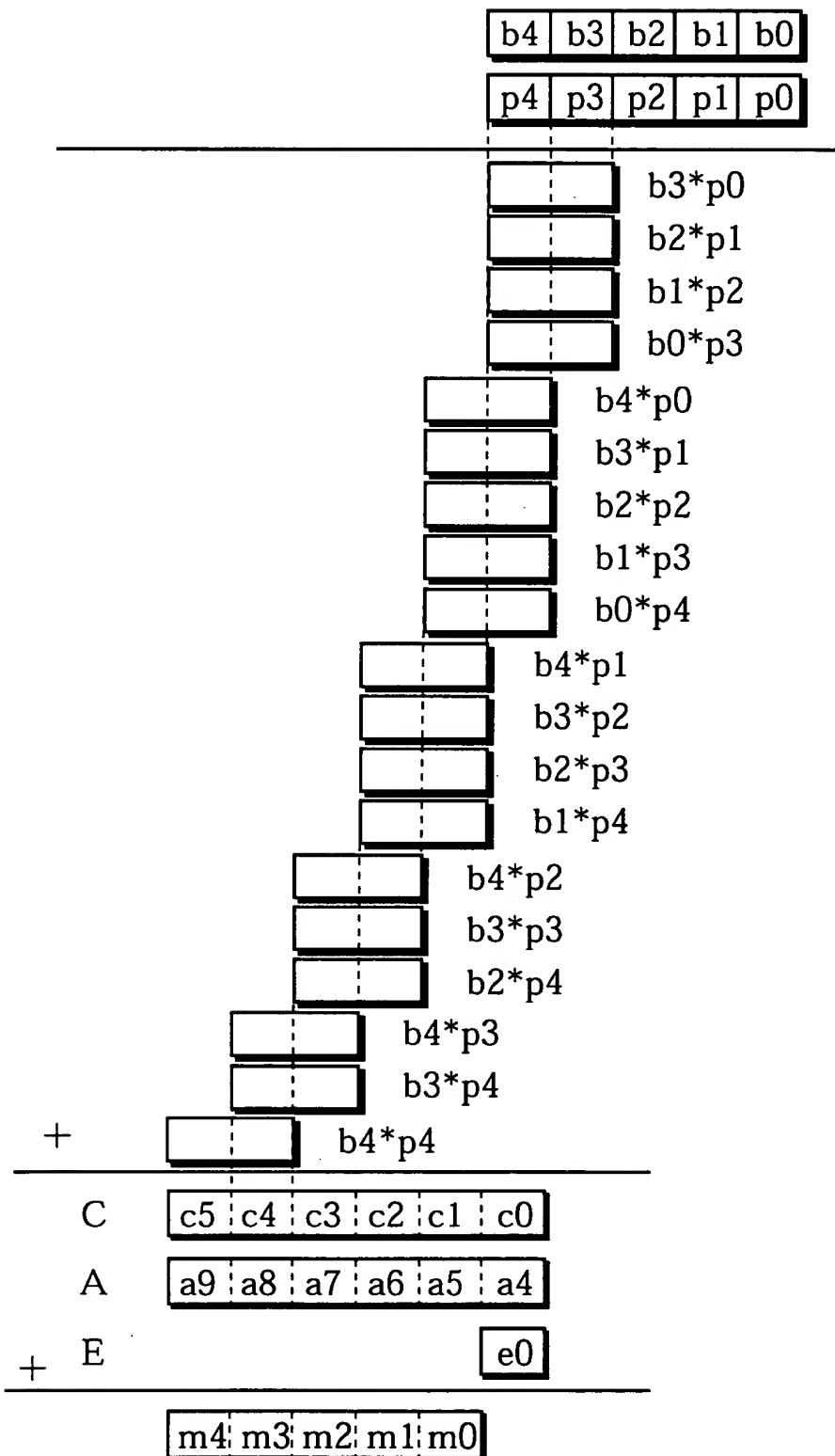


FIG. 16A

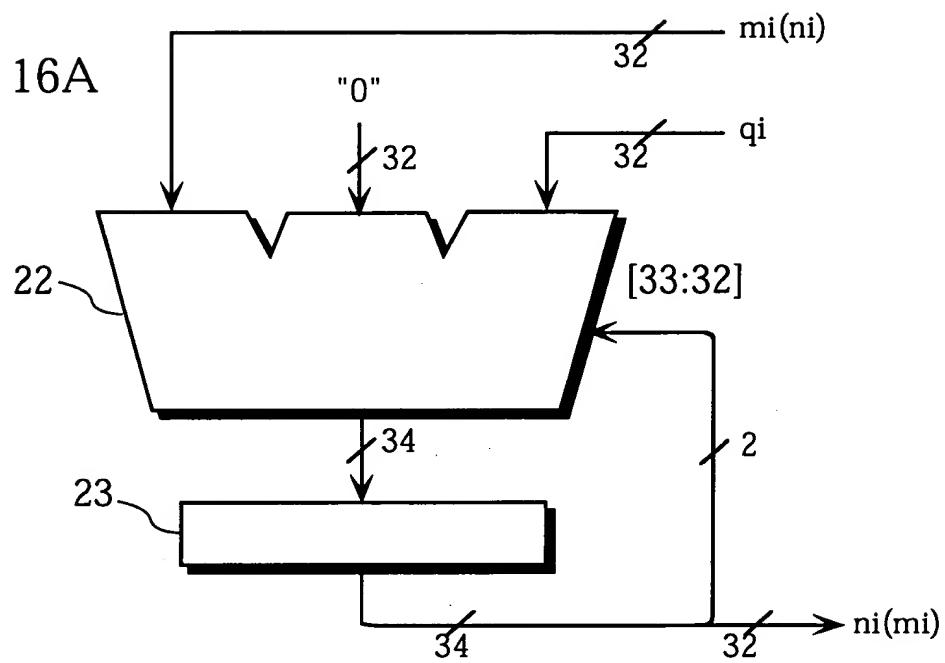


FIG. 16B

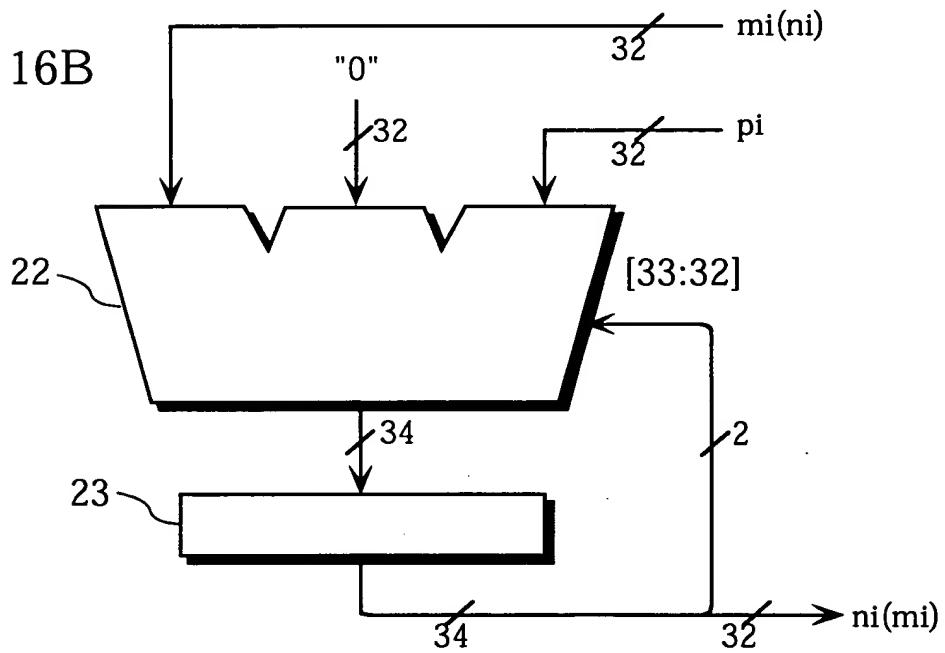


FIG. 17

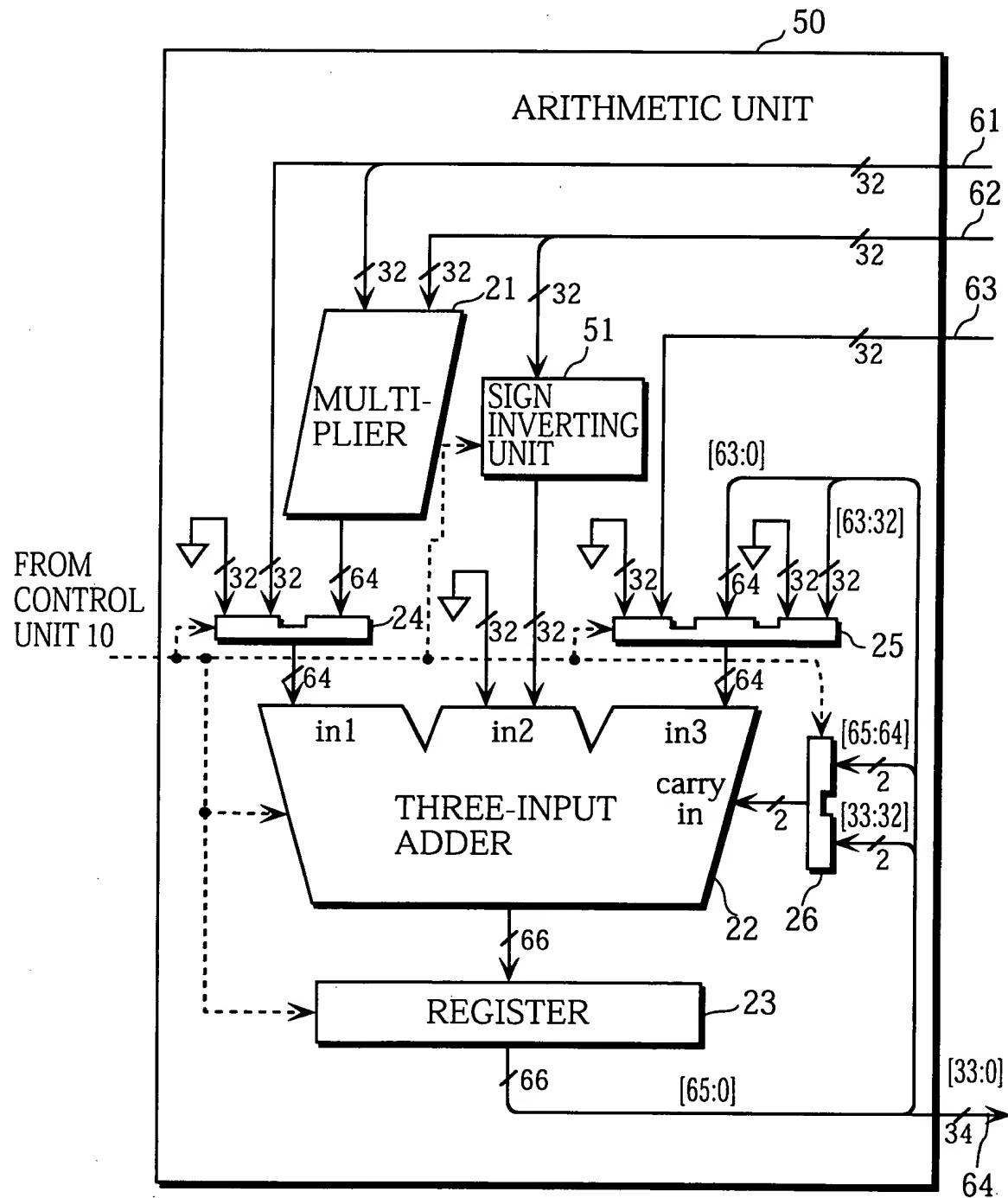


FIG. 18A

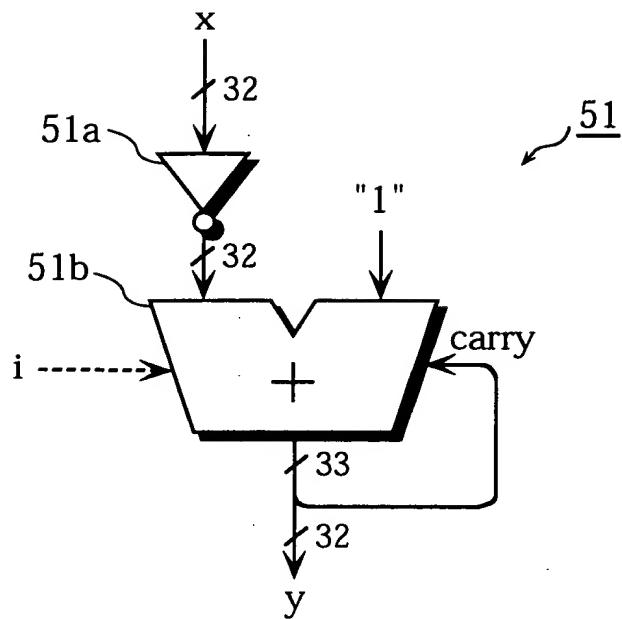


FIG. 18B

